

CLAIMS:

I claim:

- 1           1. A laser supporting attachment for a laser  
2 alignment system comprising:  
3           a laser module;  
4           a mandrel having a laser module attaching support  
5 on one end thereof for attaching said laser module  
6 thereto and a mandrel to wheel adapter connection on  
7 the other end thereof, said mandrel having a slot  
8 formed in the side thereof and being hollow therein;  
9           a mandrel to wheel adapter removably attachable  
10 to said mandrel on the mandrel to wheel adapter  
11 connection for attaching said mandrel to a specific  
12 vehicle; and  
13           an adapter holding plate having a threaded  
14 opening therein and being sized to fit in said mandrel  
15 slot for bolting said mandrel to wheel adapter to said  
16 mandrel from one end thereof; and  
17           a treaded bolt removably fastening said mandrel  
18 to wheel adapter to said mandrel and adapter holding  
19 plate whereby a laser module can be readily attached  
20 to a vehicle wheel spindle or hub.
- 1           2. A laser supporting attachment for a laser  
2 alignment system in accordance with claim 1 in which  
3 said adapter holding plate has a curved top to match  
4 the curve in said mandrel.
- 1           3. A laser supporting attachment for a laser  
2 alignment system in accordance with claim 2 in which  
3 said mandrel laser module attaching support includes  
4 a cradle for cradling said laser module therein.

1           4. A laser supporting attachment for a laser  
2 alignment system in accordance with claim 3 in which  
3 said mandrel has an opening therein located adjacent  
4 said laser module cradle for holding a bolt for  
5 bolting said laser module to said mandrel.

1           5. A laser supporting attachment for a laser  
2 alignment system in accordance with claim 4 in which  
3 said mandrel to wheel adapter is threaded for  
4 attaching to a spindle threads.

1           6. A laser supporting attachment for a laser  
2 alignment system in accordance with claim 4 in which  
3 said mandrel to wheel adapter has a flange with a  
4 plurality of holes therein aligned for attaching to a  
5 wheel hub.

1           7. A method of supporting a laser for a laser  
2 alignment system comprising the steps of:  
3           selecting a laser module;  
4           selecting a mandrel having a laser module  
5 attaching support on one end thereof for attaching  
6 said laser module thereto and a mandrel to wheel  
7 adapter connection on the other end thereof, said  
8 mandrel having a slot formed in the side thereof and  
9 being hollow therein;  
10          selecting a mandrel to wheel adapter removably  
11 attachable to said mandrel on the mandrel to wheel  
12 adapter connection for attaching said mandrel to a  
13 specific vehicle;  
14          selecting an adapter holding plate having a  
15 threaded opening therein and being sized to fit in  
16 said mandrel slot for bolting said mandrel to wheel  
17 adapter to said mandrel from one end thereof;  
18          sliding said adapter holding plate into the slot  
19 in the side of said mandrel;  
20          bolting said selected mandrel to wheel adapter to  
21 said mandrel and adapter holding plate; and  
22          attaching said mandrel and laser module to the  
23 wheel of a vehicle.